

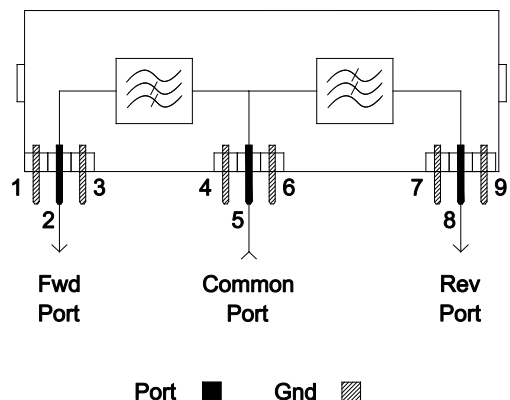
## Features

- Plug in Design
- Low Insertion Loss
- Excellent Cross over Isolation
- Excellent Return loss
- RoHs Compliant
- Lead-free

## Description

The MAFL-011062 is a high performance vertical plug-in diplex filter designed specifically for the CATV infrastructure market.

## Functional Schematic



## Ordering Information

Part Number	Package
MAFL-011062	480

## Pin Configuration

Pin No.	Function
1,3,4,6,7,9	Ground
2	Forward Path Port
5	Common Port
8	Reverse Path Port

## Vertical Plug-in Diplex Filter 5-204/258-1218MHz

Rev. V1

Target Electrical Specifications:  $T_A = 25^\circ\text{C}$ ,  $Z_0 = 75 \Omega$

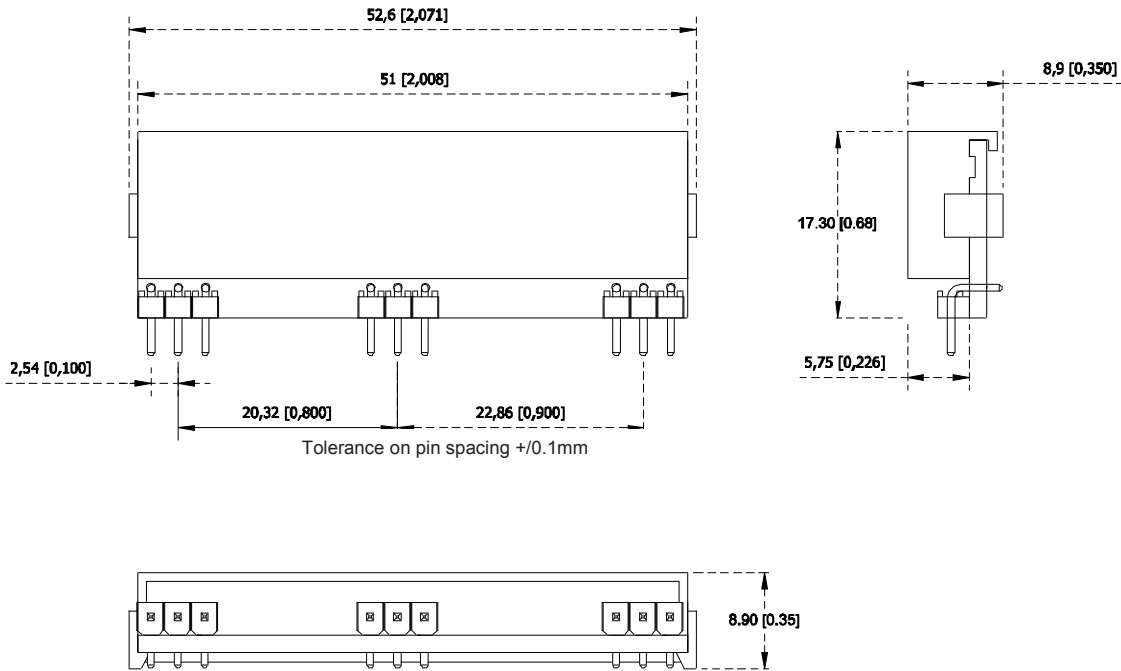
Parameter	Units	Min	Typ	Max
Insertion loss				
Reverse Path 5 - 204 MHz	dB	—	1.0	1.2
Forward Path 258 - 1218 MHz	dB	—	1.0	1.2
Isolation				
5 - 204 MHz	dB	48	51	—
205 - 257 MHz	dB	37	39	—
258 - 1218 MHz	dB	48	51	—
Return loss				
Common Port				
5 - 204 MHz	dB	20	22	—
258 - 1218 MHz	dB	20	22	—
Group Delay				
Reverse Path				
201.0 - 202.5 MHz	nSec	—	10.0	—
202.5 - 204.0 MHz	nSec	—	16.0	—
Forward Path				
259.2625 - 262.84 MHz	nSec	—	16.0	—
265.2625 - 268.84 MHz	nSec	—	10.0	—

### Recommended Maximum Ratings<sup>1,2</sup>

Parameter	Absolute maximum
RF power	250mW
DC current	30mA
Operating temperature	-40°C to +85°C
Storage temperature	-40°C to +85°C

1. Exceeding any one or combination of these limits may cause permanent damage to this device.
2. MACOM does not recommend sustained operation near these survivability limits.

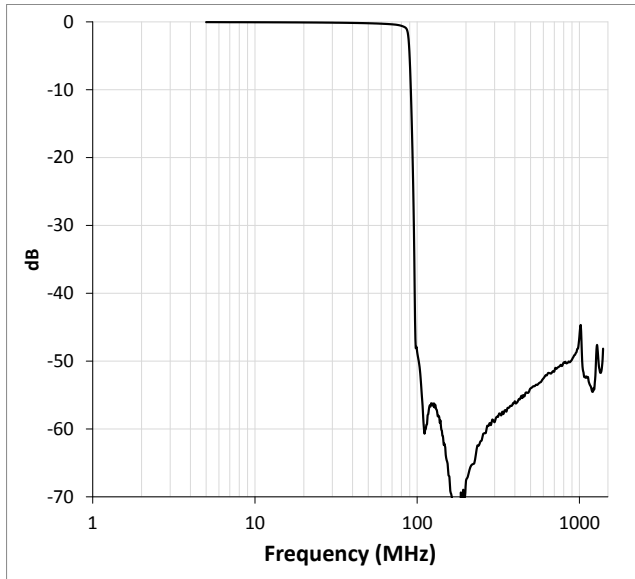
## Outline Drawing



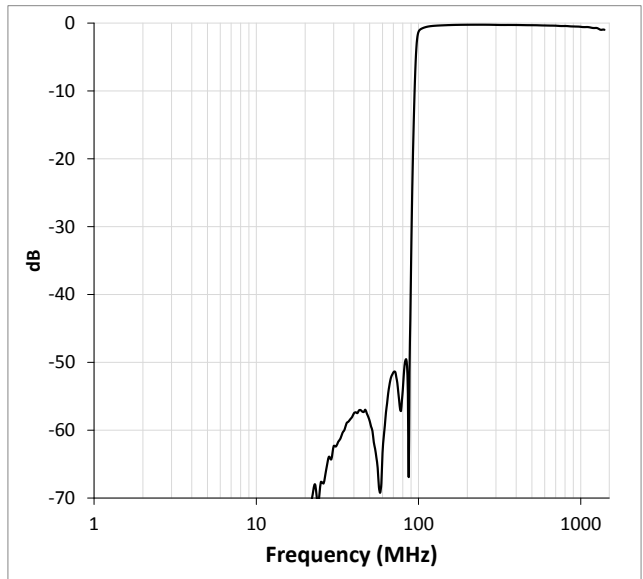
Dimensions in mm [inches] (Tolerance +/-0.3mm unless stated otherwise)

### Typical Performance Curves:

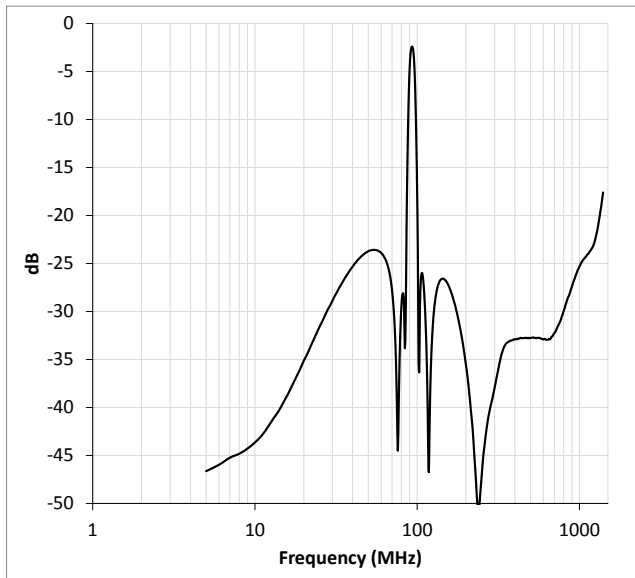
#### Low Pass Filter



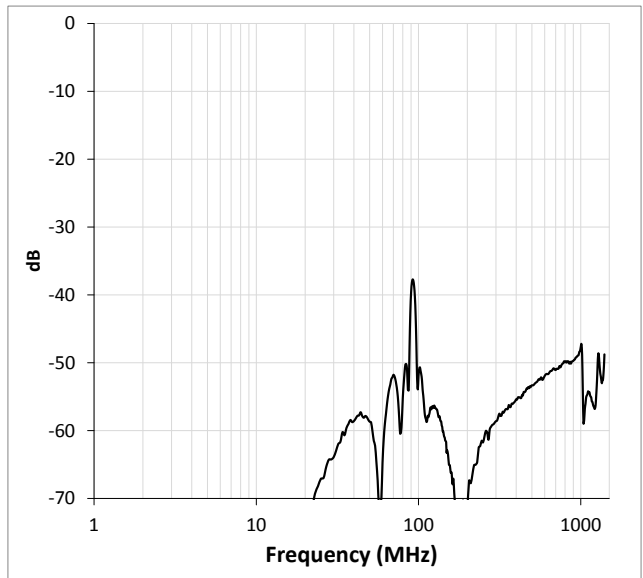
#### High Pass Filter



#### Common Port Return Loss

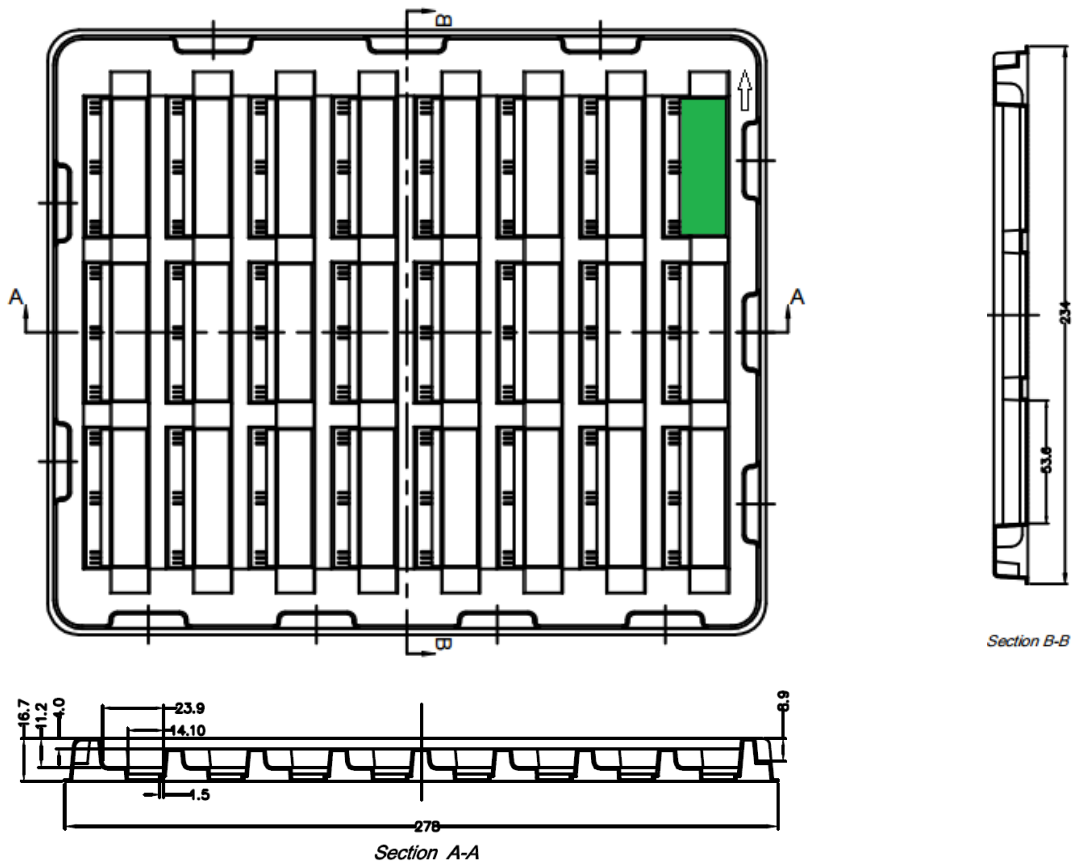


#### Isolation



## Tray Information

Parameter	Units	Value
Min Order Qty	-	480
Tray Length	mm	278
Tray Width	mm	234
Tray Height	mm	16.7
Orientation	-	See below
Consecutive trays will be stacked alternately at 180°		



Dimensions are in millimetres.

Tolerance: .x ± 0.1 mm, except where specified.

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